BRUHAT BANGALORE MAHANAGARA PALIKE

COMPERATIVE STATEMENT

Name of Work : Construction of CC Road, RCC drain and RCC culvert in Someshwara Layout and Surrounding area at Kattigenahalli in Ward No.05

Name of Agency : M/s KRIDL

Estimated Cost: 97.00 Lakhs

Job No : 005-20-000081

KRIDL Amount : Rs.83,60,104.74/-

Work Order No: BBMP/EE/BTP/WO/243/19-20, Dated: 21.03.2020

SL. No.	Description	Unit	Qty. as per Sanctioned Estimate			Qty. as per KRIDL			Actual executed Qty.	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total Executed Amount	Savings	Excess	Remarks
			Qty.	Rate	Amount	Qty.	Rate	Amount		Qty.	Rate	Amount	Qty.	Rate 2018-19	Amount				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	KSRRB 300-3. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. (Page No. 142/ Item No. 19.1/ PWD SR 2018-19)	Cum	1160.07	220.40	255679.43	1160.07	220.40	255679.43	1333.88	1333.88	137.80	183809.22	0.00			183809.22	71870.21	0.00	
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18 PWD SR 2018-19)	Cum	335.78	5509.33	1849944.86	335.78	5509.33	1849944.86	262.33	262.33	5509.33	1445240.50	0.00			1445240.50	404704.36	0.00	
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200	Cum	249.62	7189.42	1794587.07	249.62	7189.42	1794587.07	304.13	304.13	7189.42	2186547.06	0.00	7,189.42	0.00	2186547.06	0.00	391959.99	

4	KBS 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3 (I No-28.8.2,P No-229 PWD SR 2018-19)	Tonne	16.98	72326.98	1227775.80	16.98	72326.98	1227775.80	20.29	20.29	72326.98	1467251.15	0.00	65,046.90		1467251.15	0.00	239475.35	
5	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete.(Data Rate)	Sqm	549.00	2337.00	1283013.00	549.00	2337.00	1283013.00	708.57	686.25	2337.00	1603766.25	22.32	2,337.00	52,161.84	1655928.09	0.00	372915.09	
6	Providing and fixing Precast RCC slab of 250mm thick for Culverts made of Plain/Reinforced Cement Concrete design mix M25 with OPC@340kgs,with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates@0.47cum,with superplasticizer@3lts confirming to IS9103-1999 Reaffirmed-2008,Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour,HOM curing,form works,scaffolding and centering complete as per specifications and pointing for ljoints 1:3 cement mortar including form work,lift charges,curing and concrete finished surfaces on both sides etc,complete and as per the directions of Engineer in-Charge. (Data Rate)	Sqm	23.70	5418.00	128406.60	23.70	5418.00	128406.60	55.65	29.63	5418.00	160508.25	26.03	5,418.00	1,41,003.45	301511.70	0.00	173105.10	
7	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications.(P.No. 147, I.No. 19.64 PWD SR 2018-19)	Sqm	1540.70	6.36	9798.85	1540.70	6.36	9798.85	737.30	737.30	6.36	4689.23	0.00	6.36		4689.23	5109.62	0.00	

8	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (Page No.155.tem No.20.18,PW,P & IWTD SR 2018-19)	Cum	231.11	2001.28	462505.81	231.11	2001.28	462505.81	110.60	110.60	2001.28	221331.56	0.00	2,001.28		221331.56	241174.25	0.00	
9	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as	Cum	231.11	5354.02	1237340.79	231.11	5354.02	1237340.79	110.11	110.11	5354.02	589525.79	0.00	5,354.02		589525.79	647815.00	0.00	
10	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(Page No. 178.tem No.22.7,PW,P & IWTD SR 2018-19)	Sqm	1540.70	72.08	111053.66	1540.70	72.08	111053.66	737.30	737.30	72.08	53144.58	0.00	72.08		53144.58	57909.07	0.00	
																8108978.88		**1177455.53**	

	EIRL																		
EIRL-1	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications								110.60	110.60	952.94	105390.40	0.00	952.94		105390.40		105390.40	
EIRL-2	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specification (I No-2.10,P No-7 PWD SR 2018-19)	Cum							666.94	666.94	217.08	144779.77	0.00	217.08		144779.77		144779.77	
	Construction Total				**8360104.74**											**250170.17**		**250170.17**	
	GST Charges 12%				**1003212.57**														
	KRIDL Charges 4%				**334404.19**														
	Sub Total				**9697721.50**														
	Utility Shifting,Miscellaneous and Rounding off	**Ls**			**2278.50**														
	Total				**9700000.00**			**8360104.74**								**8359147.64**	**1428582.53**	**1177455.53**	
																0.011	**Below**		

SUMMARY:

1. **Estimated Cost : Rs. 97.00 Lakhs**
2. **KRIDL Cost : Rs.83,60,104.74/-**
3. **Executed Cost: Rs.8359147.64/-**
4. **ERIL Amount Rs.2,50,170.17 = 2.99% of the KRIDL Amount**
5. **Work Slip Amount Rs.11,77,455.53= 14.08 % of the KRIDL Amount**
6. **During execution as per requirement and site condition, the total Qty to be executed costs Rs. 83.59 Lakhs which is 0.011% BELOW the KRIDL cost. The proposal may kindly be approved.**

Assistant Engineer
Ward No 05

Assistant Executive Engineer
Bytarayanapura Sub Division,BBMP

Executive Engineer
Bytarayanapura Sub Division, BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

EXTRA ITEM RATE LIST : PWG - 71

Name of Work : Construction of CC Road, RCC drain and RCC culvert in Someshwara Layout and Surrounding area at Kattigenahalli in Ward No.05

Name of Agency : M/s KRIDL

Estimated Cost: 97.00 Lakhs

Job No : 005-20-000081

KRIDL Amount : Rs.83,60,104.74/-

Work Order No: BBMP/EE/BTP/WO/243/19-20, Dated: 21.03.2020

Item No.	Item of Work	Unit	Quantity	Rate	Amount	Whether the Item is an alternative to item in the tender or whether they are additional items. (IF items are in live of some items in the accepted tender such items should be mentioned)	Whether the extra item is included in the sanctioned estimate	How the extra cost of the item is proposed be met out	Whether the extra item is included in the rate of division if so reference to this item of the schedule should be given	Remarks
1	2	3	4	5	6	7	8	9	10	11
EIRL-1	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (Page No. 140/ Item No. 18.47/ PWD SR 2018-19)	Cum	110.60	952.94	**105390.40**	Alternative Item	No	In the savings amount of Original Estimate	Yes Rate analysis included in the Modified Estimate	There is no provision in the Estimate
EIRL-2	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specification (I No-2.10,P No-7 PWD SR 2018-19)	Cum	666.94	217.08	**144779.77**	Alternative Item	No	In the savings amount of Original Estimate	Yes Rate analysis included in the Modified Estimate	There is no provision in the Estimate
				Total	**250170.17**					

Percentage of Excess / Approved KRIDL Amount = $\frac{250170.17}{8360104.74} \times 100$ = 2.99%

Assistant Engineer
Ward No 05

"EIRL Approved"

Assistant Executive Engineer
Bytarayanapura Sub Division

Executive Engineer
Bytarayanapura Division

BRUHAT BANGALORE MAHANAGARA PALIKE

PWD FORM - 45 (WORK SLIP)

Name of Work : Construction of CC Road, RCC drain and RCC culvert in Someshwara Layout and Surrounding area at Kattigenahalli in Ward No.05

Name of Agency : M/s KRIDL

Estimated Cost: 97.00 Lakhs

Job No : 005-20-000081

KRIDL Amount : Rs.83,60,104.74/-

Work Order No: BBMP/EE/BTP/WO/243/19-20, Dated: 21.03.2020

SL. No.	Description	Unit	Qty. as per Sanctioned Estimate			Qty. As per KRIDL			Actual executed Qty.	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total Executed Amount	Savings	Excess	Remarks
			Qty.	Rate	Amount	Qty.	Rate	Amount		Qty.	Rate	Amount	Qty.	Rate 2018-19	Amount				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	KSRRB 300-3. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. (Page No. 142/ Item No. 19.1/ PWD SR 2018-19)	Cum	1160.07	220.40	255679.43	1160.07	220.40	255679.43	1333.88	1333.88	137.80	183809.22	0.00			183809.22	71870.21		
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18 PWD SR 2018-19)	Cum	335.78	5509.33	1849944.86	335.78	5509.33	1849944.86	262.33	262.33	5509.33	1445240.50	0.00			1445240.50	404704.36		
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200	Cum	249.62	7189.42	1794587.07	249.62	7189.42	1794587.07	304.13	304.13	7189.42	2186547.06	0.00	7,189.42	0.00	2186547.06		391959.99	

4	KB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3 (I No-28.8.2,P No-229 PWD SR 2018-19)	Tonne	16.98	72326.98	1227775.80	16.98	72326.98	1227775.80	20.29	20.29	72326.98	1467251.15	0.00	65,046.90		1467251.15		239475.35	
5	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete.(Data Rate)	Sqm	549.00	2337.00	1283013.00	549.00	2337.00	1283013.00	708.57	686.25	2337.00	1603766.25	22.32	2,337.00	52,161.84	1655928.09		372915.09	
6	Providing and fixing Precast RCC slab of 250mm thick for Culverts made of Plain/Reinforced Cement Concrete design mix M25 with OPC@340kgs,with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates@0.47cum,with superplasticizer@3lts confirming to IS9103-1999 Reaffirmed-2008,Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour,HOM curing,form works,scaffolding and centering complete as per specifications and pointing for ljoints 1:3 cement mortar including form work,lift charges,curing and concrete finished surfaces on both sides etc,complete and as per the directions of Engineer in-Charge. (Data Rate)	Sqm	23.70	5418.00	128406.60	23.70	5418.00	128406.60	55.65	29.63	5418.00	160508.25	26.03	5,418.00	1,41,003.45	301511.70		173105.10	
7	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications.(P.No. 147, I.No. 19.64 PWD SR 2018-19)	Sqm	1540.70	6.36	9798.85	1540.70	6.36	9798.85	737.30	737.30	6.36	4689.23	0.00	6.36		4689.23	5109.62		

8	SRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spr[illegible]ng and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (Page No.155.tem No.20.18,PW,P & IWTD SR 2018-19)	Cum	231.11	2001.28	462505.81	231.11	2001.28	462505.81	110.60	110.60	2001.28	221331.56	0.00	2,001.28		221331.56	241174.25		
9	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as	Cum	231.11	5354.02	1237340.79	231.11	5354.02	1237340.79	110.11	110.11	5354.02	589525.79	0.00	5,354.02		589525.79	647815.00		
10	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(Page No. 178.tem No.22.7,PW,P & IWTD SR 2018-19)	Sqm	1540.70	72.08	111053.66	1540.70	72.08	111053.66	737.30	737.30	72.08	53144.58	0.00	72.08		53144.58	57909.07		
																8108978.88		**1177455.53**	

	EIRL																		
EIRL-1	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications								110.60	110.60	952.94	105390.40	0.00	952.94		105390.40		105390.40	
EIRL-2	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specification (I No-2.10,P No-7 PWD SR 2018-19)	Cum							666.94	666.94	217.08	144779.77	0.00	217.08		144779.77		144779.77	
	Construction Total				**8360104.74**											**250170.17**		**250170.17**	
	GST Charges 12%				**1003212.57**														
	KRIDL Charges 4%				**334404.19**														
	Sub Total				**9697721.50**														
	Utility Shifting,Miscellaneous and Rounding off	**Ls**			**2278.50**														
	Total				**9700000.00**			**8360104.74**								**8359147.64**	**1428582.53**	**1177455.53**	
																0.011	**Below**		

Percentage of Excess = $\frac{\text{1177455.53}}{\text{8360104.74}} \times 100$ = **14.08%**

Approved KRIDL Amount

Assistant Engineer
Ward No 05

Assistant Executive Engineer
Bytarayanapura Sub Division,BBMP

Executive Engineer
Bytarayanapura Division, BBMP

"Work slip approved"

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ.

BRUHAT BANGALORE MAHANAGARA PALIKE

Rate Analysis for work slip & EIRL Items

Name of Work : Construction of CC Road, RCC drain and RCC culvert in Someshwara Layout and Surrounding area at Kattigenahalli in Ward No.05

Name of Agency : M/s KRIDL

Estimated Cost: 97.00 Lakhs

Job No : 005-20-000081

KRIDL Amount : Rs.83,60,104.74/-

Work Order No: BBMP/EE/BTP/WO/243/19-20, Dated: 21.03.2020

Sl No	Item of work / Page No	Unit	Basic Rate	Area Weightage	Total Rate	Rate in words
EIRL-1	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (Page No. 140/ Item No. 18.47/ PWD SR 2018-19)	Cum	899.00	53.94	**952.94**	**Rupees Nine Hundred Fifty Two And Paise Ninety Four Only**
EIRL-2	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specification (I No-2.10/ P No-7/ PWD SR 2018-19)	Cum	201.00	16.08	**217.08**	**Rupees Two Hundred Seventeen And Paise Eight Only**

Assistant Engineer
Ward No 05

Assistant Executive Engineer
Bytarayanapura Sub Division

Executive Engineer
Bytarayanapura Division